

Next Generation Fiber Coherent Lidar System for Wake Vortex Detection, Phase I

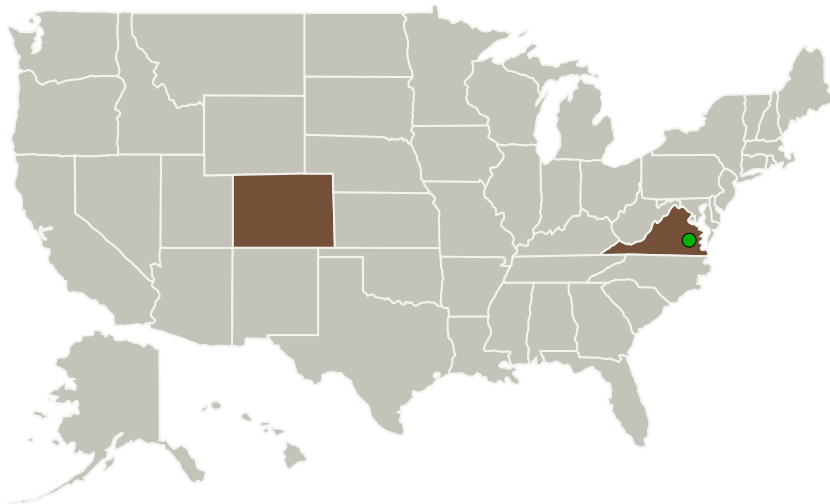
Completed Technology Project (2011 - 2011)



Project Introduction

Sibelloptics proposes to develop an eye-safe, long-range, compact, versatile, all-fiber wind LIDAR system for wake vortex measurement and other wind measurement applications that is more efficient, and reliable, and at a much lower up-front and lifetime cost than any wind LIDAR system currently available. It is proposed herein that the fiber transmitter sub-system be ordered and built on a breadboard and characterized.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Sibelloptics	Lead Organization	Industry	Lafayette, Colorado
● Langley Research Center(LaRC)	Supporting Organization	NASA Center	Hampton, Virginia

Primary U.S. Work Locations

Colorado	Virginia
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Project Transitions



February 2011: Project Start



September 2011: Closed out

Closeout Summary: Next Generation Fiber Coherent Lidar System for Wake Vortex Detection, Phase I Project Image

Closeout Documentation:

- Final Summary Chart Image(<https://techport.nasa.gov/file/140178>)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

SibellOptics

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

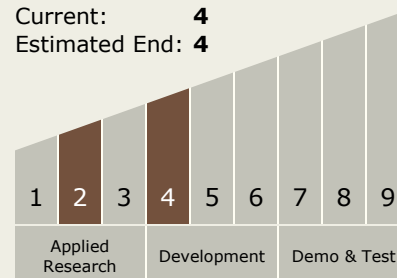
Russ Sibell

Technology Maturity (TRL)

Start: 2

Current: 4

Estimated End: 4



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Technology Areas

Primary:

- TX08 Sensors and Instruments
 - └ TX08.1 Remote Sensing Instruments/Sensors
 - └ TX08.1.5 Lasers

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System